

| PHYSICAL & MENTAL REQUIREMENTS/WORKING CONDITIONS City of Virginia Beach, VA | | | | | | | | | |
|--|---|------------------|---|--|---|--|----------------------------|-------------|--|
| Job Title: | Maintenance Engineer II | | | | Position Number(PCN): | B.006742.5 | | | |
| Div./Office: | PUD 035 Electrical Support | Approver's Name | | | | | | | |
| Date of Last Update: | March 27, 2023 | Approver's Title | | | | | | | |
| Fields to the right (Y/N): The position's status AND If the background check must be passed by the incumbent | | | | | | | | | |
| Safety Sensitive: | | Yes | Child Protective Services (CPS) Background: | | No | VCIN Background: | | No | |
| CJIS Certification: | | No | PREA Certification: | | No | Subject to Barrier Crime Provisions: | | No | |
| REQUIREMENTS | | | | | | | | | |
| FREQUENCY: Seldom = Infrequent, < 5%; Occasional = 5% to 25% of time on job; Frequent = 25% to 75% of time on job; Constant = Over 75% of time on job. | | | | | | | | | |
| Typical DURATION: Short = < 1 hr per occurrence; Moderate = 1-2 hrs per occurrence; Substantial = 2-6 hrs per occurrence; Long = > 6 hrs per occurrence. | | | | | | | | | |
| Physical Demands | | | | Working Conditions | | | | | |
| Element | Condition/Level/Value | Frequency | Duration | Element | Condition/Level/Value | Frequency | Duration | | |
| Standing | | Frequent | Substantial | Working Outside: in all weather conditions | | | Occasional | Short | |
| Walking | | Frequent | Substantial | Working Alone: out of communication w/others | | | N/A | N/A | |
| Sitting | | Occasional | Short | Extreme Temperatures | At/above 90 degrees | Frequent | Long | | |
| Reaching | Shoulder level or higher | Frequent | Short | Below 30 degrees | | | Frequent | Long | |
| Lifting | Up to 50 lbs. | Frequent | Short | Extreme Wetness | | | Seldom | Short | |
| | Over 50 lbs. w/assistance | Seldom | Short | Extreme Dryness | | | N/A | N/A | |
| Carrying | Weight: Up to 50 lbs. | Frequent | Short | Exposure to Traffic | N/A | N/A | N/A | | |
| | Distance: Over 25 ft. | Frequent | Short | | | | | | |
| Pushing | Estimated weight-resistance equivalency | | | Congested Area/Workspace | | | Seldom | Moderate | |
| | Over 50 lbs. | Occasional | Short | Confined Space- Permit REQUIRED | | | Occasional | Short | |
| Pulling | Estimated weight-resistance equivalency | | | Working Below Ground | | | Occasional | Short | |
| | Over 50 lbs. | Seldom | Short | Working at Heights (ft.) | Up to 12 ft. | Occasional | Short | | |
| Working Overhead | Using hand tools | Occasional | Moderate | Over 40 ft. | | | Seldom | Short | |
| | Using power tools | Seldom | Short | Noise Level: > 85 decibels TWA for 8 hrs. | Yes | Frequent | Moderate | | |
| | Weight: Up to 10 lbs. | Occasional | Short | | | | | | |
| Climbing Stairs | | Occasional | Short | Vibrations | Hammer-drill | | Occasional | Short | |
| Climbing Ladders | | Occasional | Short | | | | | | |
| Balancing | | Occasional | Short | Body area(s): | | Ex- Trunk, shoulders, arms, and hands. | | | |
| Stooping | | Frequent | Short | Dust / Dirt / Particulate | | | Frequent | Moderate | |
| Kneeling/Squatting | | Frequent | Short | Radiation | | | Occasional | Short | |
| Bending | | Frequent | Short | Silica/Fiberglass | | | Seldom | Short | |
| Crawling | | N/A | N/A | Asbestos | | | Seldom | Short | |
| Explosive Strength: Short bursts of muscle force to propel oneself. | | Seldom | Short | Aerosols & Gases | Irritant | Occasional | Short | | |
| Trunk Strength: Use of abdominal and lower back muscles. | | Occasional | Short | Hazardous Materials /Chemicals | | | Painting Supplies/Products | | |
| | | | | | | | Cleaning Products | | |
| | | | | | | | undefined | | |
| Dynamic Strength: Use of muscle force repeatedly or continuously & resistant to fatigue. | | Occasional | Short | Petroleum Products | N/A | N/A | N/A | | |
| Repetitive Limb Movement | Fingers/Wrist | Constant | Substantial | Electrical Hazard | | | Constant | Long | |
| | Arm/Shoulder | Constant | Substantial | Fire Hazard | | | Frequent | Frequent | |
| Dexterity | Grasping | Frequent | Substantial | Infectious Diseases Exposure Type(s): | Sewer-like work spaces | | Constant | Substantial | |
| | Use of computer keyboard | Frequent | Short | | | | | | |
| Repetitive Twisting | Wrist/Elbow | Frequent | Substantial | Symbols: | Ex- Repair sewer pipes; empty residence trash cans. | | | | |
| | Shoulder | Frequent | Substantial | | < equal to or less than | | < less than | | |
| Awkward Positions & Motions | Awkward positions | Occasional | Short | > equal to or greater than | | > greater than | | | |
| | Awkward motions | Occasional | Short | | | | | | |

| Sensory Demands | | | | | Working Conditions (cont.) | | | |
|--|----------------------------------|------------|----------|--|---|----------------------------|------------|----------|
| Element | Condition/Level/Value | Frequency | Duration | | Element | Condition/Level/Value | Frequency | Duration |
| Vision | 20/20 w/correction | Constant | Long | | Hazardous Surfaces | Unguarded holes/pits | Frequent | Moderate |
| | Color vision (colors) | Constant | Long | | | Abrupt uneven surfaces | Occasional | Short |
| | Peripheral vision | Constant | Long | | | Steep incline | Seldom | Moderate |
| | Depth perception | Constant | Long | | | Animal/Insect bites/stings | Frequent | Short |
| Hearing | Conversational level | Constant | Long | | Other Hazards | Electric shock | Constant | Short |
| Smell | Burning odor | Occasional | Short | | | Sharp edges/objects | Frequent | Short |
| | Natural gas | Occasional | Short | | Hours Worked | Four 10-hour days | Constant | |
| | Sewage | Frequent | Moderate | | | More than 40 hours/week | Occasional | |
| Touch | Distinguish temperature | Constant | Long | | | | | |
| | | | | | Telework Eligible | No | | |
| Voice | One-on-One | Constant | Long | | | | | |
| Personal Protective Equipment (PPE) | | | | | Equipment Operation & Use | | | |
| Category | Type | Frequency | Duration | | Category | Type | Frequency | Duration |
| Eye and Face Protection | Safety glasses w/side shields | Frequent | Moderate | | Motor Vehicles | Sedan/Pickup/Van | Frequent | Short |
| | Face shield | Seldom | Short | | | | | |
| | | | | | | | | |
| Respiration Protection | Dust mask | Occasional | Short | | Heavy Equipment | N/A | N/A | N/A |
| | | | | | | | | |
| | | | | | | | | |
| Hearing Protection | Ear plugs | Frequent | Moderate | | Other Equipment or Machinery | N/A | N/A | N/A |
| | Ear muffs | Occasional | Short | | | | | |
| Head Protection | Hard hat (electrical shock) | Frequent | Moderate | | | | | |
| | Hard hat (impact protection) | Frequent | Moderate | | | | | |
| Hand Protection | Electrical hazard insulated | Occasional | Short | | Hand-Held Power Tools | Cordless drill | Frequent | Short |
| | Leather | Frequent | Moderate | | | Impact drill/wrench | Frequent | Short |
| | Medical grade exam gloves | Frequent | Moderate | | | | | |
| Foot Protection | Steel/composite toe-safety rated | Constant | Long | | Hand Tools and Instruments | Electrical tools | Constant | Long |
| | | | | | | Survey tools | Occasional | Short |
| | | | | | | | | |
| Body, Arm, and Leg Protection | Arc Rated | Occasional | Moderate | | Office Machines & Equipment | Computer | Frequent | Short |
| | Tyvek coveralls | Seldom | Short | | | Printer/Copier/Fax | Occasional | Short |
| | | | | | | | | |
| Operator License | | | | | Commercial Driver's License | | | |
| NOTE: If CDL is required, show CDL Class in element to right. | Type | | | | VA DMV requires: 20/40 in each eye w/o telescopic lens & ≥140° horizontal vision. | N/A | | |
| | Standard Driver's License | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Other physical or sensory demands, working conditions, equipment, hazards, PPE, etc., not indicated above: | | | | | | | | |

| Mental Requirements | |
|---|--|
| Evaluate based on the level of complexity [least to most] inherent in the job using the examples provided; then select the number from the drop-down list that matches the column which best represents the mental demand required in each element. | |
| 1 Comprehend Verbal Communication - Understand information and directions which are provided verbally | |
| Job requires the ability to understand and follow: | |
| Complex information where the listener must analyze the information presented, discern the key facts vs. opinions, and make a determination on appropriate recommendation or action. | |
| 2 Communicate Orally - Verbally express thoughts and directions | |
| Job requires: | |
| Communicating complex information to higher officials and authorities. | |
| 3 Comprehend and Follow Written Material or Instructions - Understand written material, interpret appropriately, and adhere to the procedures stated. | |
| Job requires ability to comprehend: | |
| Detailed written material such as analytical, statistical, or status reports where information will be interpreted and applied to course of action. | |
| 4 Written Communication Skills - Express thoughts and directions in writing | |
| Job requires: | |
| Preparation of reports and documents involving complex information. | |
| 5 Maintain an Appropriate Work Pace - The flow or rate of incoming work assignments and the expectations for completion of tasks | |
| Job requires ability to adhere to work schedule: | |
| In moderately paced environment with some unexpected assignments. | |
| 6 Perform Complex or Varied Tasks - The variety of tasks and assignments and the level of complexity of those tasks/assignments | |
| Job requires ability to perform: | |
| A variety of complex tasks with little predictability as to their occurrence; tasks which are unlikely to reoccur. | |
| 7 Interact and Relate to Peers, Co-Workers, or the Public - The nature and level of interaction with others required of the job | |
| Job requires interaction: | |
| With a variety of individuals or groups outside the immediate unit/agency to collaborate on issues or projects. | |
| 8 Decision Making & Reasoning Ability - The extent to which the job requires logic to analyze information, draw conclusions/ generalizations, and make decisions based on facts | |
| Job requires: | |
| Considerable reasoning and decision making. Issues and/or data are interpreted and evaluated, alternatives are evaluated, and recommendations are made for resolution of issues. | |
| 9 Memory and Recall - The body of stored knowledge required and the retrieval of that information to accomplish duties | |
| Job requires the ability to: | |
| Remember laws, codes, policies, procedures, etc., which are somewhat repetitive from day to day. | |
| 10 Flexibility and Adaptability - The extent to which one must adjust to changing circumstances and expectations, take on new challenges on short notice, and/or deal successfully with changing priorities and workloads | |
| Job requires flexibility and willingness: | |
| To adjust to non-typical conditions or situations where a new or different process/procedure must be utilized to accomplish work. | |
| 11 Attention Span - Sustained attention or the time spent continuously on task without becoming distracted to successfully perform duties | |
| Job tasks are: | |
| Varied and typically of moderate duration requiring sustained focus. Lapses may result in injury or legal or financial liability. | |
| 12 Attention to Detail - Thoroughness and accuracy are required to accomplish tasks | |
| Job tasks: | |
| Involve investigation, inspection, auditing, or observation. Inattention to detail could result in confusion and delays. | |
| 13 Reaction Time - Describes work that requires an immediate response or decision | |
| Job requires the ability to: | |
| Provide an immediate response/decision to situations outside of normal daily operations, procedures or processes. Delays occur if response is not timely. | |
| 14 Direct, Control, and Plan the Work of Others - Determine the time, place and sequence of work procedures, operations, and actions. Establish goals and objectives, motivate, and promote cooperation and teamwork in the work group | |
| Job requires: | |
| Supervision of a small group of employees (5 or less). | |
| 15 Influence Others - Obtain cooperation from others to accomplish tasks and objectives | |
| Job requires: | |
| Obtaining support from other work groups to accomplish objectives. | |
| 16 Stress Tolerance - Ability to perform duties without anxiety when faced with difficulties. Having positive stress tolerance is being able to stay calm in situations of heavy workload, tight deadlines, and/or difficult customers | |
| Job requires the ability to: | |
| Handle stress associated with having to work with other people who are in distress. | |